

# Afshin Beheshti

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

2,230  
citations

279701

23  
h-index

254106

43  
g-index

90  
all docs

90  
docs citations

90  
times ranked

3285  
citing authors

#	ARTICLE	IF	CITATIONS
1	System-wide transcriptome damage and tissue identity loss in COVID-19 patients. <i>Cell Reports Medicine</i> , 2022, 3, 100522.	3.3	24
2	A comprehensive SARS-CoV-2 and COVID-19 review, Part 1: Intracellular overdrive for SARS-CoV-2 infection. <i>European Journal of Human Genetics</i> , 2022, 30, 889-898.	1.4	30
3	The interplay between lncRNAs, RNA-binding proteins and viral genome during SARS-CoV-2 infection reveals strong connections with regulatory events involved in RNA metabolism and immune response. <i>Theranostics</i> , 2022, 12, 3946-3962.	4.6	14
4	SARS-CoV-2 antibody prevalence in a pediatric cohort of unvaccinated children in MÃ©rida, YucatÃ¡n, MÃ©xico. <i>PLOS Global Public Health</i> , 2022, 2, e0000354.	0.5	0
5	Extraterrestrial Gynecology: Could Spaceflight Increase the Risk of Developing Cancer in Female Astronauts? An Updated Review. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7465.	1.8	7
6	The Impact of Hindlimb Suspension on the Rat Eye: A Molecular and Histological Analysis of the Retina. <i>Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research</i> , 2021, 9, 86-103.	0.3	2
7	SARS-CoV-2 genomic diversity and the implications for qRT-PCR diagnostics and transmission. <i>Genome Research</i> , 2021, 31, 635-644.	2.4	39
8	NASA GeneLab RNA-seq consensus pipeline: Standardized processing of short-read RNA-seq data. <i>IScience</i> , 2021, 24, 102361.	1.9	20
9	CPA: a web-based platform for consensus pathway analysis and interactive visualization. <i>Nucleic Acids Research</i> , 2021, 49, W114-W124.	6.5	20
10	Role of miR-2392 in driving SARS-CoV-2 infection. <i>Cell Reports</i> , 2021, 37, 109839.	2.9	52
11	EXPRESSION OF INSULIN RESISTANCE RELATED GENES DURING SPACEFLIGHT. <i>Fertility and Sterility</i> , 2021, 116, e107.	0.5	0
12	Genomic Changes Driven by Radiation-Induced DNA Damage and Microgravity in Human Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10507.	1.8	19
13	Oncogenic Integration of Nucleotide Metabolism via Fatty Acid Synthase in Non-Hodgkin Lymphoma. <i>Frontiers in Oncology</i> , 2021, 11, 725137.	1.3	7
14	Combinatorial ixazomib and belinostat therapy induces NFE2L2â€dependent apoptosis in Hodgkin and Tâ€cell lymphoma. <i>British Journal of Haematology</i> , 2020, 188, 295-308.	1.2	7
15	Interaction kinetics with transcriptomic and secretory responses of CD19-CAR natural killer-cell therapy in CD20 resistant non-hodgkin lymphoma. <i>Leukemia</i> , 2020, 34, 1291-1304.	3.3	33
16	Fundamental Biological Features of Spaceflight: Advancing the Field to Enable Deep-Space Exploration. <i>Cell</i> , 2020, 183, 1162-1184.	13.5	185
17	Comprehensive Multi-omics Analysis Reveals Mitochondrial Stress as a Central Biological Hub for Spaceflight Impact. <i>Cell</i> , 2020, 183, 1185-1201.e20.	13.5	161
18	Circulating miRNA Spaceflight Signature Reveals Targets for Countermeasure Development. <i>Cell Reports</i> , 2020, 33, 108448.	2.9	35

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19	Beyond Low-Earth Orbit: Characterizing Immune and microRNA Differentials following Simulated Deep Spaceflight Conditions in Mice. <i>IScience</i> , 2020, 23, 101747.	1.9	17
20	LET-Dependent Low Dose and Synergistic Inhibition of Human Angiogenesis by Charged Particles: Validation of miRNAs that Drive Inhibition. <i>IScience</i> , 2020, 23, 101771.	1.9	12
21	NASA GeneLab Platform Utilized for Biological Response to Space Radiation in Animal Models. <i>Cancers</i> , 2020, 12, 381.	1.7	18
22	Exploring the Effects of Spaceflight on Mouse Physiology using the Open Access NASA GeneLab Platform. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	10
23	GeneLab Database Analyses Suggest Long-Term Impact of Space Radiation on the Cardiovascular System by the Activation of FYN Through Reactive Oxygen Species. <i>International Journal of Molecular Sciences</i> , 2019, 20, 661.	1.8	23
24	Identification of Circulating Serum Multi-MicroRNA Signatures in Human DLBCL Models. <i>Scientific Reports</i> , 2019, 9, 17161.	1.6	25
25	Multi-omics analysis of multiple missions to space reveal a theme of lipid dysregulation in mouse liver. <i>Scientific Reports</i> , 2019, 9, 19195.	1.6	46
26	Identification of FASN-Dependent Onco-Metabolic Regulation of the Pentose Phosphate Pathway (PPP) and Nucleotide Metabolism in Non-Hodgkin Lymphoma (NHL). <i>Blood</i> , 2019, 134, 1573-1573.	0.6	0
27	Transcriptomic and Metabolomic Profiling Identifies Calcium-Dependent Signaling Mechanisms As a Novel and Exploitable Target to Overcome Anti-CD20 Resistance in Non-Hodgkin Lymphoma (NHL). <i>Blood</i> , 2019, 134, 1511-1511.	0.6	0
28	Fatty Acid Synthase induced S6Kinase facilitates USP11-eIF4B complex formation for sustained oncogenic translation in DLBCL. <i>Nature Communications</i> , 2018, 9, 829.	5.8	60
29	Role of hypoxia in Diffuse Large B-cell Lymphoma: Metabolic repression and selective translation of HK2 facilitates development of DLBCL. <i>Scientific Reports</i> , 2018, 8, 744.	1.6	36
30	Global transcriptomic analysis suggests carbon dioxide as an environmental stressor in spaceflight: A systems biology GeneLab case study. <i>Scientific Reports</i> , 2018, 8, 4191.	1.6	35
31	Comparative oncology DNA sequencing of canine T cell lymphoma via human hotspot panel. <i>Oncotarget</i> , 2018, 9, 22693-22702.	0.8	18
32	Vive la radorÃ©sistance!: converging research in radiobiology and biogerontology to enhance human radioresistance for deep space exploration and colonization. <i>Oncotarget</i> , 2018, 9, 14692-14722.	0.8	62
33	A microRNA signature and TGF-Î²1 response were identified as the key master regulators for spaceflight response. <i>PLoS ONE</i> , 2018, 13, e0199621.	1.1	33
34	NASA GeneLab Project: Bridging Space Radiation Omics with Ground Studies. <i>Radiation Research</i> , 2018, 189, 553-559.	0.7	19
35	Abstract 4455: Fatty acid synthase-induced S6Kinase facilitates USP11-eIF4B complex formation for sustained oncogenic translation in DLBCL. , 2018, , .		0
36	Ultra-Sensitive Detection of Circulating Serum microRNAs (miRNAs) in Diffuse Large B-Cell Lymphoma (DLBCL) Patient-Derived Xenograft (PDX) Models and Correlation with Disease Status in DLBCL Patient. <i>Blood</i> , 2018, 132, 2973-2973.	0.6	0

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37	Systems Biology Analyses to Delineate Mechanisms of Anti-CD20 Antibody Resistance in Non-Hodgkin Lymphoma (NHL): Influence of BCR Signaling and the Critical Importance of Calcium Polarization. <i>Blood</i> , 2018, 132, 1665-1665.	0.6	0
38	Transcriptomic Systems Biology Analyses with Buparlisib (BKM120) Pan PI3K Inhibition in Canine B Cell Lymphoma (BCL): Leveraging Comparative Oncology for Cancer Therapeutics and Biomarker Discovery. <i>Blood</i> , 2018, 132, 4114-4114.	0.6	0
39	FAIRness and Usability for Open-access Omics Data Systems. <i>AMIA ... Annual Symposium proceedings</i> , 2018, 2018, 232-241.	0.2	7
40	Dynamic Analysis of Human Natural Killer Cell Response at Single-Cell Resolution in B-Cell Non-Hodgkin Lymphoma. <i>Frontiers in Immunology</i> , 2017, 8, 1736.	2.2	39
41	A Circulating microRNA Signature Predicts Age-Based Development of Lymphoma. <i>PLoS ONE</i> , 2017, 12, e0170521.	1.1	18
42	Proteasomal Inhibition by Ixazomib Induces CHK1 and MYC-Dependent Cell Death in T-cell and Hodgkin Lymphoma. <i>Cancer Research</i> , 2016, 76, 3319-3331.	0.4	34
43	Circulating microRNAs Predict the Initiation of NHL in a Novel In Vivo Model: Impact of Age and Sex Via a Systems Biology Approach. <i>Blood</i> , 2016, 128, 4114-4114.	0.6	0
44	CD19 Target Activated Natural Killer (CD19.TaNK) Cellular Therapy: A Novel immunotherapeutic Approach to the Treatment of Non-Hodgkin Lymphoma (NHL). <i>Blood</i> , 2016, 128, 4174-4174.	0.6	1
45	Proteasome and HDAC Inhibitor Therapy in T-Cell Lymphoma (TCL) and Hodgkin Lymphoma (HL): Nuclear Factor Erythroid 2 like 2 (NRF2)-Dependent Cell Death and Function. <i>Blood</i> , 2016, 128, 3020-3020.	0.6	0
46	Buparlisib/BKM120 PI3 Kinase Therapy in B Cell and T Cell Non-Hodgkin Lymphoma (NHL) and Hodgkin Lymphoma (HL): Identification of Resistance Pathways and Biomarker Discovery. <i>Blood</i> , 2016, 128, 2920-2920.	0.6	0
47	The Impact of Age and Sex in DLBCL: Systems Biology Analyses Identify Distinct Molecular Changes and Signaling Networks. <i>Cancer Informatics</i> , 2015, 14, CIN.S34144.	0.9	18
48	Fractionated Radiation Exposure of Rat Spinal Cords Leads to Latent Neuro-Inflammation in Brain, Cognitive Deficits, and Alterations in Apurinic Endonuclease 1. <i>PLoS ONE</i> , 2015, 10, e0133016.	1.1	7
49	Proton irradiation impacts age-driven modulations of cancer progression influenced by immune system transcriptome modifications from splenic tissue. <i>Journal of Radiation Research</i> , 2015, 56, 792-803.	0.8	10
50	Host Age Is a Systemic Regulator of Gene Expression Impacting Cancer Progression. <i>Cancer Research</i> , 2015, 75, 1134-1143.	0.4	34
51	The Proteasome Inhibitor, Ixazomib, Combined with Novel Drug Combinations in T-Cell Lymphoma (TCL) and Hodgkin Lymphoma (HL): Identification of Key Genes and Signaling Pathways Via a Novel Systems Biology Approach. <i>Blood</i> , 2015, 126, 2753-2753.	0.6	2
52	Tumor-host signaling interaction reveals a systemic, age-dependent splenic immune influence on tumor development. <i>Oncotarget</i> , 2015, 6, 35419-35432.	0.8	20
53	Capturing the Driving Role of Tumor-Host Crosstalk in a Dynamical Model of Tumor Growth. <i>Bio-protocol</i> , 2015, 5, .	0.2	2
54	The PI3 Kinase (PI3K) Inhibitor, Buparlisib/BKM120, in B-Cell, T-Cell and Hodgkin Lymphoma Cell Lines: Cell Death Studies and Examination of Genomic Pathway Analyses Via a Systems Biology Approach. <i>Blood</i> , 2015, 126, 1555-1555.	0.6	2

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55	Lipid Addiction of Diffuse Large B-Cell Lymphoma (DLBCL): Fatty Acid Synthase (FASN) and PI3K Dependent Cell Death Identifies a Novel Therapeutic Paradigm. <i>Blood</i> , 2015, 126, 1284-1284.	0.6	2
56	A Comparative Oncology Analysis of Canine T-Cell Lymphoma (TCL): Immunohistochemical Study and Next Generation Sequencing for Protein Analysis and Genomic Target Discovery. <i>Blood</i> , 2015, 126, 3883-3883.	0.6	0
57	The Impact of Age and Sex in DLBCL: Determination of Biologic Dynamics and Delineation of Inter-Connected Signaling Networks Via a Systems Biology Analysis. <i>Blood</i> , 2015, 126, 2672-2672.	0.6	0
58	Classical Mathematical Models for Description and Prediction of Experimental Tumor Growth. <i>PLoS Computational Biology</i> , 2014, 10, e1003800.	1.5	419
59	Proton Irradiation Augments the Suppression of Tumor Progression Observed with Advanced Age. <i>Radiation Research</i> , 2014, 181, 272-283.	0.7	11
60	A Comparative Oncology Study of Canine and Human Genomics and Proteomics in Peripheral T-Cell Lymphoma (PTCL): Examination of Shared Oncogenic Signaling for Biomarker and Therapeutic Target Discovery. <i>Blood</i> , 2014, 124, 3019-3019.	0.6	0
61	Age and Space Irradiation Modulate Tumor Progression: Implications for Carcinogenesis Risk. <i>Radiation Research</i> , 2013, 179, 208-220.	0.7	15
62	Early Tumor Development Captured Through Nondestructive, High Resolution Differential Phase Contrast X-ray Imaging. <i>Radiation Research</i> , 2013, 180, 448-454.	0.7	3
63	Transcriptional changes induced by the tumor dormancy-associated microRNA-190. <i>Transcription</i> , 2013, 4, 177-191.	1.7	45
64	Abstract PR13: microRNAs: Master regulators of human tumor dormancy. <i>Cancer Research</i> , 2013, 73, PR13-PR13.	0.4	1
65	Consensus Micro RNAs Governing the Switch of Dormant Tumors to the Fast-Growing Angiogenic Phenotype. <i>PLoS ONE</i> , 2012, 7, e44001.	1.1	53
66	Intercellular Communication by Exchange of Cytoplasmic Material via Tunneling Nano-Tube Like Structures in Primary Human Renal Epithelial Cells. <i>PLoS ONE</i> , 2011, 6, e21283.	1.1	94
67	Abstract 1319: Proton irradiation exerts antiangiogenic and other tumor progression-limiting effects. , 2010, , .		0
68	Paradoxical Dependencies of Tumor Dormancy and Progression on Basic Cell Kinetics. <i>Cancer Research</i> , 2009, 69, 8814-8821.	0.4	175
69	DNA electrophoresis in agarose gels: A simple relation describing the length dependence of mobility. <i>Electrophoresis</i> , 2002, 23, 15.	1.3	39
70	DNA electrophoresis in agarose gels: Effects of field and gel concentration on the exponential dependence of reciprocal mobility on DNA length. <i>Electrophoresis</i> , 2002, 23, 2710-2719.	1.3	21
71	DNA electrophoresis in agarose gels: Effects of field and gel concentration on the exponential dependence of reciprocal mobility on DNA length. , 2002, 23, 2710.		1
72	Artificial Intelligence in Predicting Clinical Outcome in COVID-19 Patients from Clinical, Biochemical and a Qualitative Chest X-Ray Scoring System. <i>Reports in Medical Imaging</i> , 0, Volume 14, 27-39.	0.8	4

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73	Circulating miRNA Signature Predicts and Rescues Spaceflight Associated Health Risks. SSRN Electronic Journal, 0, , .	0.4	1
74	Beyond Low-Earth Orbit: Characterizing the Immune Profile Following Simulated Spaceflight Conditions for Deep Space Missions. SSRN Electronic Journal, 0, , .	0.4	0
75	Multi-Omics Analysis Reveals Mitochondrial Stress as a Central Hub for Spaceflight Biological Impact. SSRN Electronic Journal, 0, , .	0.4	2
76	LET Dependent Low Dose and Synergistic Inhibition of Human Angiogenesis by Charged Particles: Validation of Mi RNAs that Drive Inhibition. SSRN Electronic Journal, 0, , .	0.4	0
77	Visualizing Omics Data from Spaceflight Samples using the NASA GeneLab Platform. , 0, , .		2